

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Carol Chaney Examiner #: 72248 Date: 8-24-00
Art Unit: 1745 Phone Number 305 3777 Serial Number: 09/379 051
Mail Box and Bldg/Room Location: CP3 1401 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Sealed Lead-Acid Cells & Batteries ^{Having an} ~~SEA~~ Expandable Cap.

Inventors (please provide full names): William Kump, Deborah Huke, Edward Mattan

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

This is a reissue of US Patent 5 660 946
A litigation search is requested.

Belange

— NO REPORTED LITIGATION —

STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher: <u>CLP</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: _____	AA Sequence (#) _____	Dialog <u>\$15</u>
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Date Searcher Picked Up: _____	Bibliographic _____	Dr. Link _____
Date Completed: <u>8-24-00</u>	Litigation <input checked="" type="checkbox"/>	Lexis/Nexis <u>\$40</u>
Searcher Prep & Review Time: <u>2</u>	Fulltext _____	Sequence Systems _____
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Online Time: <u>8</u>	Other _____	Other (specify) _____

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Lexis search

PATNO IS 5660946

DATE: AUGUST 24, 2000
LIBRARY: PATENT
FILE: ALL

Your search request is:
PATNO IS 5660946

Number of PATENTS found with your search request through:
LEVEL 1... 1

Your search request has found 1 PATENT through Level 1.
To DISPLAY this PATENT press either the KWIC, FULL, CITE or SEGMENTS key.
To MODIFY your search request, press the M key (for MODIFY) and then the ENTER key.

For further explanation, press the H key (for HELP) and then the ENTER key.

LEVEL 1 - 1 PATENT

1. 5,660,946, Aug. 26, 1997, Sealed lead-acid cells and batteries having an expandable cover, Kump, William H., West St. Paul, Minnesota Huke, Deborah, Prior Lake, Minnesota Mattan, Edward, St. Charles, Illinois, GNB Technologies, Inc., Mendota Heights, Minnesota (02)

CORE TERMS: sealing, cell, terminal, seal, battery, terminal-cover, region, grid, lead-acid, sealed...

LEVEL 1 - 1 OF 1 PATENT

5,660,946

<=2> GET 1st DRAWING SHEET OF 3

Aug. 26, 1997

Sealed lead-acid cells and batteries having an expandable
cover

REISSUE: Reissue Application filed Aug. 23, 1999, (O.G. Oct. 19, 1999) Ex. Gp.:
1745; Re. S.N. 09/379,051

CORE TERMS: sealing, cell, terminal, seal, battery, terminal-cover, region,
grid, lead-acid, sealed...

5660946 OR 5,660,946

Your search request has found no CASES.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

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Search statement 1

?/pn us5660946

** SS 1: Results 1

Search statement 2

?prt pset 1

1/1 LGST - (C) LEGSTAT

Patent Number -US 5660946 [US5660946]
Application Number -US 674420/96 19960702 [1996US-0674420]
Document Type -US-P
Action Taken -19960702 US/AE-A
APPLICATION DATA (PATENT)
{US 674420/96 19960702 [1996US-0674420]}
-19960925 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
GNB TECHNOLOGIES, INC. 1110 CENTRE POINTE CURVE MENDOTA
HEIGHTS, MINNESOTA 55118 * KUMP, WILLIAM H. : 19960829;
MATTAN, EDWARD : 19960916; HUKU, DEBORAH : 19960829
-19970826 US/A
PATENT
-19991019 US/RF
REISSUE APPLICATION FILED
19990823
Update Code -1999-42

?file lita

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Search statement 1

?nbr /pn us5660946

2	2	US5659931
3	4	US5660010
4	2	US5660061
5	1	US5660333
6	1	US5661024
7	1	US5661184
8	2	US5661351
9	1	US5661533
10	1	US5661645
11	1	US5661668
12	1	US5661677
13	1	US5661907
14	3	US5662000
15	1	US5662409

no citations for '946 in LITALERT

Some: numbers / Continue: Y / None: N

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Search statement 1

?nbr /pn us5660946

1	1	US5660904
2	1	US5660905
3	1	US5660928
4	1	US5660932
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6	1	US5660948
7	2	US5660955
8	1	US5660957
9	1	US5660963
10	1	US5660966
11	1	US5660971
12	1	US5660980
13	1	US5660983
14	1	US5661000
15	2	US5661005

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?5

** SS 1: Results 1
 Continue: Y / N

?prt pset 1

1/1 PAST - (C) PAST
 Accession Number -199942-001294

Patent Number -5660946 A [US5660946]
Official Gazette Date -1999-10-19
Actions -REISSUE APPLICATION FILED

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File 345:Inpadoc/Fam.& Legal Stat 1968-2000/UD=200033
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Set	Items	Description
S1	1	PN=US 5660946

1/9/1

DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat
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13835094

Basic Patent (No,Kind,Date): US 5660946 A 970826 <No. of Patents: 001>

PATENT FAMILY:

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5660946 A 970826

SEALED LEAD-ACID CELLS AND BATTERIES HAVING AN EXPANDABLE COVER
(English)

Patent Assignee: GNB TECHNOLOGIES INC (US)

Author (Inventor): KUMP WILLIAM H (US); HUKU DEBORAH (US); MATTAN
EDWARD (US)

Priority (No,Kind,Date): US 674420 A 960702

Applic (No,Kind,Date): US 674420 A 960702

National Class: * 429180000; 429178000; 429181000; 429089000;
429066000

IPC: * H01M-002/04

Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 5660946	P	960702	US AE	APPLICATION DATA (PATENT)
				(APPL. DATA (PATENT))

US 674420 A 960702

US 5660946	P	960925	US AS02	ASSIGNMENT OF ASSIGNOR'S INTEREST
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GNB TECHNOLOGIES, INC. 1110 CENTRE POINTE
CURVE MENDOTA HEIGHTS, MINNESOTA 55118 ;
KUMP, WILLIAM H. : 19960829; MATTAN, EDWARD :
19960916; HUKU, DEBORAH : 19960829

US 5660946	P	970826	US A	PATENT
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US 5660946	P	991019	US RF	REISSUE APPLICATION FILED (REISSUE APPL. FILED) 19990823
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